Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-06-02-07** **Date: 06-06-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in Janatha colony, Hebbal Kempapura in ward No.7, Byatarayanapura.
Agency	:	Sri.M.Prakash, #136, Kashinagara main road,Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/04/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-06-2018
Sample ID No	:	2018-06-02-07 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-06-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.25	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.8	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	27.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(HQ) N.D

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-06-02-07** **Date: 02-07-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in Janatha colony, Hebbal Kempapura in ward No.7, Byatarayanapura.
Agency	:	Sri.M.Prakash, #136, Kashinagara main road,Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/04/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-06-2018
Sample ID No	:	2018-06-02-07 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-06-2018
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
2	28 Days	54.0N/mm^2	Not less than 53 N/mm^2

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AE(Civil)

Assistant Executive Engineer
Sub Division

CIVIL PRO Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-06-02-07** **Date: 06-06-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in Janatha colony, Hebbal Kempapura in ward No.7, Byatarayanapura.
Agency	:	Sri.M.Prakash, #136, Kashinagara main road,Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/04/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-06-2018
Sample ID No	:	2018-06-02-07 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-06-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	224	224	1.5	98.5	90-100
3	20 mm	5434	5658	37.7	62.3	30-70
4	10 mm	4798	10456	69.7	30.3	10-35
5	4.75 mm	4254	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

AE(NZ)

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-06-02-07** **Date: 06-06-2018**

Sample ID No : 2018-06-02-07 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.45	_
5	Bulk Density(Compacted) (Kg/l)	1.48	_
6	Water Absorption(%)	0.2	_

Note:
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(Civil)

Assistant Executive Engineer
Sub Division

CIVIL PRO Sig..... Date..... BANGALORE

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-06-02-07** **Date: 07-06-2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in Janatha colony, Hebbal Kempapura in ward No.7, Byatarayanapura.

Agency : Sri.M.Prakash, #136, Kashinagara main road,Amruthahalli, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/04/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-06-2018

Sample ID No : 2018-06-02-07 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 03-06-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	161	247	24.7	75.3	60-95	75-100	85-100	95-100
4	1.18 mm	180	427	42.7	57.3	30-70	55-90	75-100	90-100
5	600 micron	179	606	60.6	39.4	15-34	35-59	60-79	80-100
6	300 micron	170	776	77.6	22.4	5-20	8-30	12-40	15-50
7	150 micron	141	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

AE(HQ)

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-06-02-07** **Date: 07-06-2018**

Sample ID No : 2018-06-02-07 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.65	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	5.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-06-27-06** **Date: 02/07/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in Janatha colony, Hebbal Kempapura in ward No.7, Byatarayanapura.

Agency : Sri.M.Prakash, #136, Kashinagara main road,Amruthahalli, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/04/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-2018

Sample ID No : 2018-06-27-06 /01

Customer ID : C.C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C.C Pavement	M20	25/06/2018	02/07/2018	150.04 X 151.11 X 149.78	22671	8.301	410.8	18.1	18.3
2	C.C Pavement	M20	25/06/2018	02/07/2018	149.83 X 149.94 X 151.87	22466	8.153	418.7	18.6	
3	C.C Pavement	M20	25/06/2018	02/07/2018	150.84 X 151.57 X 151.36	22862	8.533	412.2	18.0	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(HQ)

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-06-27-06** **Date: 23/07/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in Janatha colony, Hebbal Kempapura in ward No.7, Byatarayanapura.

Agency : Sri.M.Prakash, #136, Kashinagara main road,Amruthahalli, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/04/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-2018

Sample ID No : 2018-06-27-06 /02

Customer ID : C.C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C.C Pavement	M20	25/06/2018	23/07/2018	149.37 X 149.58 X 151.43	22343	8.239	517.7	23.2	23.0
2	C.C Pavement	M20	25/06/2018	23/07/2018	149.71 X 151.98 X 151.05	22753	8.342	515.6	22.7	
3	C.C Pavement	M20	25/06/2018	23/07/2018	151.21 X 149.85 X 149.05	22658	8.220	527.2	23.3	

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-06-28-07** **Date: 03/07/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in Janatha colony, Hebbal Kempapura in ward No.7, Byatarayanapura.

Agency : Sri.M.Prakash, #136, Kashinagara main road,Amruthahalli, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/04/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-06-2018

Sample ID No : 2018-06-28-07 /01

Customer ID : C.C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C.C Pavement	M20	26/06/2018	03/07/2018	149.57 X 151.11 X 150.13	22601	8.388	423.4	18.7	18.6
2	C.C Pavement	M20	26/06/2018	03/07/2018	150.87 X 150.77 X 150.49	22747	7.995	416.6	18.3	
3	C.C Pavement	M20	26/06/2018	03/07/2018	150.76 X 150.73 X 151.01	22723	8.109	426.3	18.8	

Note:

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AE(WO)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-06-28-07** **Date: 24/07/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in Janatha colony, Hebbal Kempapura in ward No.7, Byatarayanapura.

Agency : Sri.M.Prakash, #136, Kashinagara main road,Amruthahalli, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/04/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-06-2018

Sample ID No : 2018-06-28-07 /02

Customer ID : C.C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C.C Pavement	M20	26/06/2018	24/07/2018	151.67 X 149.06 X 149.40	22608	8.343	541.0	23.9	23.0
2	C.C Pavement	M20	26/06/2018	24/07/2018	150.06 X 150.90 X 151.51	22645	8.298	502.4	22.2	
3	C.C Pavement	M20	26/06/2018	24/07/2018	149.72 X 151.73 X 149.29	22717	8.468	522.9	23.0	

Note:

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Authorized Signatory
Quality Manager

AE(W)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P
Bangalore.

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-06-09-04** **Date: 11-06-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in Janatha colony, Hebbal Kempapura in ward No.7, Byatarayanapura.
Agency	:	Sri.M.Prakash, #136, Kashinagara main road,Amruthahalli, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/04/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-06-2018
Sample ID No	:	2018-06-09-04/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	09-06-2018
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	212	212	1.9	98.1	95-100
22.4	2398	2610	23.7	76.3	60-80
11.2	3072	5682	51.7	48.3	40-60
4.75	2197	7879	71.6	28.4	25-40
2.36	1446	9325	84.8	15.2	15-30
0.6	532	9857	89.6	10.4	8-22
0.075	822	10679	97.1	2.9	0-5

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(NS)

Assistant Executive Engineer

CIVIL PRO Sig..... Date..... BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-06-09-04** **Date: 11-06-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in Janatha colony, Hebbal Kempapura in ward No.7, Byatarayanapura.
Agency	:	Sri.M.Prakash, #136, Kashinagara main road,Amruthahalli, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/04/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-06-2018
Sample ID No	:	2018-06-09-04/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	09-06-2018

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	299.7	299.7
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	62.0	66.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	237.1	233.2
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.4
5	Aggregate impact value	(B/A)*100	20.7	22.1
6	Aggregate impact value (Mean of two tests)	Pecentage	21.4	

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Authorized Signatory
Quality Manager

AE(HQ)

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-06-09-04** **Date: 11-06-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in Janatha colony, Hebbal Kempapura in ward No.7, Byatarayanapura.
Agency	:	Sri.M.Prakash, #136, Kashinagara main road,Amruthahalli, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/04/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-06-2018
Sample ID No	:	2018-06-09-04/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	09-06-2018

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.1%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.8%	
Combined Flakiness and Elongation Index for WMM	23.9%	

Note:-
The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(WZ)

CIVIL PRO Sig..... Date..... BANGALORE

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com